

BRIDGE REHABILITATION CONSISTS OF

BRIDGE JACKING W/ STEEL PEDESTALS ----- SPECIAL DESIGN

HEAT STRAIGHTENING AND REPAIR TO STRUCTURAL MEMBERS ----- SPECIAL DESIGN

INTERMEDIATE BENT CAP RETROFIT ----- SPECIAL DESIGN

4-END POST AND GUARDRAIL ATTACHMENT DETAIL ----- GA. STD. 3054 (9-30-02)  
(L = 4'-0"; W = 1'-1"; H = 3'-5 3/4")

ONE PIPE ALUMINUM HANDRAILING ----- GA. STD. 3626 (10-22-85)

BAR BENDING DETAILS ----- GA. STD. 3901 (8-69)

CHAIN LINK WIRE FENCE ----- GA. STD. 903IN (8-13-85)

TRAFFIC DATA

TRAFFIC ----- ADT = 12,100 (2009)  
ADT = 16,500 (2029)

DESIGN SPEED ----- 45 MPH

TRUCKS ----- 4 %

DIRECTIONAL ----- 65 %

EXISTING UTILITIES

GAS MAIN ----- ATLANTA GAS LIGHT RESOURCES

TELEPHONE CONDUITS ----- BELLSOUTH

WATER MAIN ----- CLAYTON CO. WATER AUTHORITY

DESIGN DATA

SPECIFICATIONS ----- AASHTO 17TH EDITION 2002  
(DESIGNED FOR SEISMIC PERFORMANCE CATEGORY A)

TYPICAL HS20-44 AND/OR MILITARY LOADING ----- IMPACT ALLOWED

FUTURE PAVING ALLOWNANCE ----- 30 LBS PER SQ FT

CONCRETE: SUPERSTRUCTURE----- CLASS AA, f<sub>c</sub> = 3,500 PSI

SUBSTRUCTURE----- CLASS AA, f<sub>c</sub> = 3,500 PSI

REINFORCEMENT STEEL: ----- GRADE 60, f<sub>y</sub>= 60,000 PSI

GENERAL NOTES

SPECIFICATIONS - GEORGIA STANDARD SPECIFICATIONS, 2001 EDITION, AS MODIFIED BY CONTRACT DOCUMENTS.

REINFORCING STEEL - PLACE AND TIE ALL REINFORCING STEEL IN ACCORDANCE WITH THE GEORGIA DOT SPECIFICATIONS. DO NOT WELD REINFORCING STEEL.

CHAMFER - CHAMFER ALL EXPOSED CONCRETE EDGES 3/4" UNLESS OTHERWISE NOTED.

PROTECTIVE PLATFORMS - PROVIDE PROTECTIVE PLATFORMS AT THIS SITE, SEE SECTION 510 OF THE GEORGIA DOT SPECIFICATIONS. MAINTAIN A MINIMUM VERTICAL CLEARANCE OF 15'-9" OVER I-285.

TRAFFIC CONTROLS - SEE ROADWAY PLANS FOR TRAFFIC CONTROLS AND TRAFFIC CONTROL PAYMENT.

EXISTING BRIDGE PLANS - ORIGINAL BRIDGE PLANS MAY BE PURCHASED BY CONTACTING THE PLANS REPRODUCTION OFFICE AT (404) 656-5401. THE ORIGINAL BRIDGE WAS BUILT UNDER PROJECT NUMBER I-FI-285-1(119)69.

DIMENSIONS AND ELEVATIONS - VERIFY ALL DIMENSIONS AND ELEVATIONS IN THE FIELD PRIOR TO ORDERING MATERIALS OR BUILDING FORMS. LIGHT LINES INDICATE THE EXISTING STRUCTURE AND HEAVY LINES INDICATE THE NEW STRUCTURE.

EPOXY RESIN ADHESIVE - APPLY EPOXY RESIN ADHESIVE TYPE II TO ALL HARDENED CONCRETE SURFACES JUST PRIOR TO POURING THE CONCRETE FOR THE NEXT STAGE OF CONSTRUCTION, SEE SECTION 886 OF THE GEORGIA DOT SPECIFICATIONS. INCLUDE THE COST OF EPOXY ADHESIVE AND ITS APPLICATION IN THE OVERALL BID SUBMITTED.

EXISTING REINFORCEMENT - THOROUGHLY CLEAN EXISTING REINFORCEMENT OF CONCRETE SCALE AND RUST BEFORE BONDING INTO NEW CONSTRUCTION.

ANCHOR BOLTS - PLACE ANCHOR BOLTS IN DRILLED 3" DIAMETER X 15" DEEP HOLES AND GROUT IN PLACE AS PER SUB-SECTION 501.3.05.B.3 OF THE GEORGIA DOT SPECIFICATIONS. HOLES SHALL BE DRILLED SO AS TO AVOID DAMAGE TO EXISTING STIRRUPS. SEE PEDESTAL DETAILS SHEET FOR NEW ANCHOR BOLT HOLE LOCATIONS.

GROOVED CONCRETE - IN THE FLAT SLAB SPANS, GROOVE THE ENTIRE LENGTH TRANSVERSELY AS PER SUB-SECTION 500.3.05.T.9.C OF THE GEORGIA DOT SPECIFICATIONS.

CHAIN LINK FENCE - CHAIN LINK FENCE SHALL BE ZC COAT, 6 FT, 9 GA ANY DAMAGE TO EXISTING FENCE SHOULD BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST.

WELDING - ALL WELDING ON GEORGIA DOT PROJECTS SHALL BE PERFORMED BY CERTIFIED WELDERS THAT HAVE IN THEIR POSSESSION A CURRENT WELDING CERTIFICATION CARD ISSUED BY THE OFFICE OF MATERIALS AND RESEARCH.USE ONLY E8018-C3 ELECTRODES FOR MANUAL SHIELDED METAL ARC WELDING.

EXISTING BRIDGE JOINTS - CLEAN EXISTING BRIDGE EXPANSION JOINTS OF ALL DIRT, REFUSE, AND EXISTING SEALANT AND SEAL JOINTS USING LOW DENSITY POLYETHYLENE SEAL AS PER SECTION 449.2.D OF THE GEORGIA DOT SPECIFICATIONS.

JACKING OF EXISTING BRIDGE - RAISE EXISTING STRUCTURE 16 INCHES. SEE SPECIAL PROVISION.

SALVAGE MATERIAL - NO MATERIAL REMOVED FROM THE EXISTING STRUCTURE SHALL BE SALVAGED FOR USE BY THE GEORGIA DOT.

CONCRETE CRACKS - CRACKS IN THE CONCRETE OVERLAY SURFACE & BENT REHABILITATION SHALL BESEALED IN ACCORDANCE WITH THE SPECIAL PROVISION, AS DIRECTED BY THE ENGINEER, PRIOR TO GROOVING. COST SHALL BE INCLUDED IN THE PRICE BID FOR PAY ITEM 528 - EPOXY SEALING OF CONCRETE CRACKS. CRACK INJECTION WILL NOT BEGIN UNTIL CONCRETE IS 90 DAYS OLD, MINIMUM.

INCIDENTAL ITEMS - INCLUDE THE COST INCIDENTAL TO THE WORK THAT IS NOT SPECIFICALLY COVERED BY THE GEORGIA STANDARD SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS AND/OR SPECIAL PROVISIONS IN THE OVERALL BID SUBMITTED. THIS INCLUDES THE COST OF CLEANING OF EXISTING REINFORCEMENT, WATERPROOFING, JOINT FILLERS, CORE DRILLING, CHIPPING CONCRETE, AND OTHER INCIDENTAL ITEMS NECESSARY TO COMPLETE THE WORK.

CONCRETE SLUMP - CONCRETE SLUMP SHALL BE INCREASED TO BETWEEN 5" AND 7" WITH 10 PERCENT ADDITIONAL CEMENT USED ON BENT 2 REHABILITATION ONLY. COST OF ADDITIONAL CEMENT SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 500 - CLASS AA CONCRETE.

REMOVAL OF PARTS OF EXISTING BRIDGE - COST FOR REMOVAL OF PORTIONS OF EXISTING SLAB, SIDEWALK, HANDRAIL, AND FENCE SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 540 REMOVAL OF PARTS OF EXISTING BRIDGE.

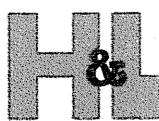
STRUCTURAL STEEL - ALL STRUCTURAL STEEL SHALL CONFORM TO ASTM A709 GRADE SOW AND AASHTO 270 DESIGNATION (WEATHERING STEEL) UNLESS NOTED OTHERWISE.

THE CONTRACTOR SHALL REMOVE ANY UNUSED OVERHEAD BRIDGE MOUNT SIGN STRUCTURES AS DIRECTED BY THE ENGINEER. COST SHALL BE INCLUDED WITH THE OVERALL BID SUBMITTED.

SUMMARY OF QUANTITIES

PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM
449-1620	122	LF	LOW-DENSITY, CLOSED-CELL, CROSS-LINKED, ETHYLENE VINYL ACETATE, POLYETHYLENE COPOLYMER, NITROGEN-BLOWN SEAL, BR NO-1, ABUT. 1 UP STA.
449-1620	122	LF	LOW-DENSITY, CLOSED-CELL, CROSS-LINKED, ETHYLENE VINYL ACETATE, POLYETHYLENE COPOLYMER, NITROGEN-BLOWN SEAL, BR NO-1, ABUT. 3 DOWN STA.
500-0100	632	SY	GROOVED CONCRETE
500-3002	75	CY	CLASS AA CONCRETE
504-0600	363	CY	TWENTY-FOUR HOUR ACCELERATED STRENGTH CONC
511-1000	7402	LB	BAR REINF STEEL
511-3000	LUMP	LS	SUPERSTR REINF STEEL, BR NO-1 (9776)
514-1000	LUMP	LS	EPOXY COATED SUPERSTR REINF STEEL, BO NO - 1 (12164)
518-1000	LUMP		RAISE EXISTING BRIDGE, STA - 28+45.00
528-0050	LUMP	LS	EPOXY PRESSURE INJECTION OF CONCRETE CRACKS, BR NO. - 1
528-0750	1375	LF	EPOXY SEALING OF CONCRETE CRACKS
540-1201	LUMP		REMOVAL OF PARTS OF EXISTING BR, STA. NO. - 28+45.00
999-0030	LUMP	LS	HEAT STRAIGHTENING AND REPAIR OF STRUCTURAL MEMBERS BM NO - 1,2,4 & 5, SPAN NO - 2, BR NO. - 1

BRIDGE NO.1



Heath & Lineback Engineers  
INCORPORATED  
2390 CANTON ROAD, BUILDING 200  
MARIETTA, GEORGIA 30066

GEORGIA  
DEPARTMENT OF TRANSPORTATION  
OPERATIONS DIVISION - OFFICE OF MAINTENANCE

GENERAL NOTES  
BRIDGE REHABILITATION ON  
SR 139 (RIVERDALE RD) OVER I-285  
CLAYTON COUNTY CSNHS-M000-00(33)

NO SCALE FEBRUARY 2008

BRIDGE SHEET  
2 OF 9

DESIGNED KAK  
DRAWN NYC

CHECKED RLF / FRB  
DESIGN GROUP

REVIEWED GBL  
APPROVED